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	removich, R. B.; Arinushkin, L.	S.: Felynygya_Ma. Y.: Garen	Hara Marania
AUTHOR: Ab	removich. R. B.; Arinushkin, D.	S.; Folynyer, Americans, L. akov, Ye. P.; Maysenberg, L.	N -

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ACCESSION NR: AP5016779

a control device; these provide interaction between the driver and the driven torus disks in transmitting rotation from the engine to the constant-rpm generator tornage a differential control mechanism and the generator gear train (see Fig. 1 of the Enclosure). Orig. art. has: 1 figure.

ASSOCIATION: Organizatelya gosudarstvennogo komiteta po aviatelonnoy teahnike GOSA (Organization of the State Committee on Aviation Technology, 1985)

SUBMITTED: 05May64

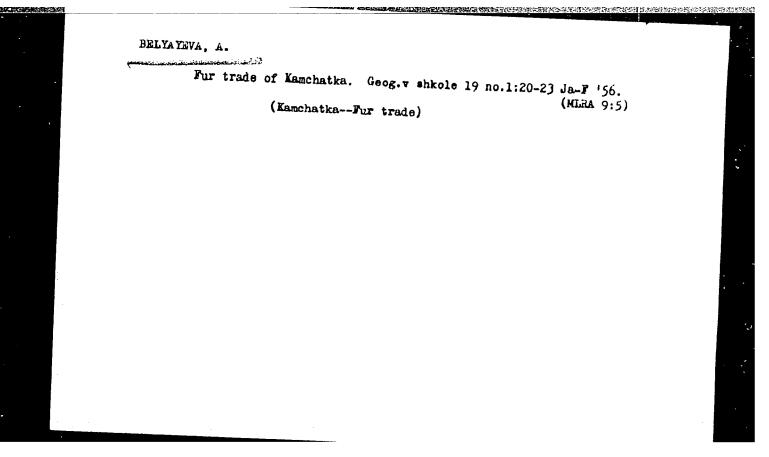
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OTHER: 000

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RELYAYEVA. A.

One year later. NTO no.1:25-27 Ja '59.

1. Predsedatel' soveta pervichnoy organizatsii nauchno-tekhnicheskogo obshchestva sel'skogo i lesnogo khozyaystva sovkhoza imeni M. Gor'kogo.

(Moscow Province--Agricultural research)

LEZHANKINA, Z., kand.sel'skokhoz.nauk, starshiy nauchnyy sotrudnik BELYAYEVA, A., agronom.

From experiments to high crop yields. NTO 3 no. 5:6-8 My '61. (MIRA 14:5)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva (for Lezhankina). 2. Zamestitel' predsedatelya soveta pervichnoy organizatsii Nauchno-tekhnicheskogo obshchestva, sovkhoz imeni M.Gor'kogo Moskovskoy oblasti (for Belyayeva).

(Moscow Province--Vegetable gardening)

BELYAYEVA, A., agronom po zashchite rasteniy

Butterflies and moths as cabbage pests. Zashch. rast. ot vred. i bol. 10 no.12:40-41 '65. (MIRA 19:1)

BELYAYEVA, A., agronom po zashchite rasteniy.

Crucifer beetles and cabbage maggots. Zashch, rast. ot vred.

i bol. 10 no.9142 '65.

(MIRA 18:11)

BELYAYEVA, A. (g.Sumy)

Although there is no club... Sov. profsoiuzy 19 no.7:21-22 Ap 163.

(Sumy-Electric industry workers)

BELYAYEVA, A.A. (Obninsk, Kaluzhskoy oblasti, bul'var Entuziastov, d.15,kv.22)

Tipocalcinogranulomatosis. Ortop., travm. i protez. 25 no.3:74-77 Mr. 164. (MIRA 18:3)

1. Iz otdeleniya kostnoy patologii (zav. - prof. V.Ya. Shlapoberskiy) TSentral'nogo instituta travmatologii i ortopedii (dir. - chlen-korrespondent AMN SSSR prof. M.V.Volkov).

BELYATEV, I.N., HELYAYEVA, A.G.

System Ma₂TiO₃ - MaCl - TiO₂. Zhur. neorg. khim. 10 no.2:467-471 F *65. (MIRA 18:11)

1. Submitted July 18, 1963.

BELYAYEV, I.N., BELYAYEVA, A.G.

Study of the system K2TiO3 - KO1 - TiO2. Thur.prikl.khim. 33 no.681280-1284 Je 765. (MIRA 18:10)

PELYAYEVA, A.G.

Experimental work in collective farm fields. Politekh. obuch. no.9:41-42 8 58. (MIRA 11:10)

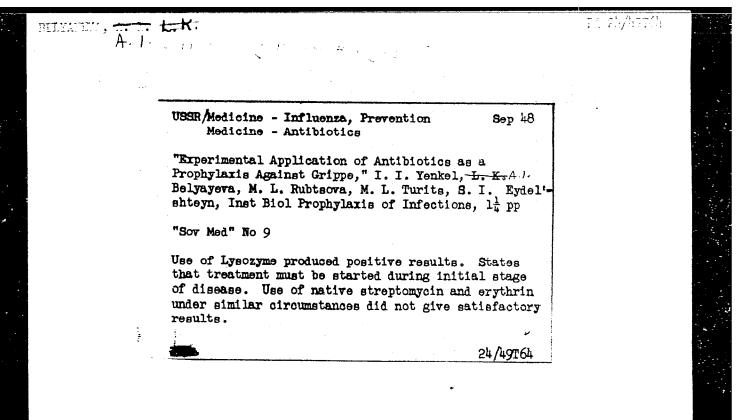
1. Srednyaya shkola Ho.1 g.Lugi, Leningradskoy oblasti.
(Agriculture—Experimentation)

ATEKSANDRIYSKIY, M.V.; BELYAYEVA, A.G.; MAKSTHOV, S.I.

Clinical statistical analysis of the treatment of fractures of the large tubular bones for five years. Trudy Vor. med. inst. 52:227-231 '63.

late results of a compound treatment of fresh fractures of the large tubular bones. Ibid.:233-236

(MIRA 18:3)



: USSR Country

: Microbiology. Antibiosis and Symbiosis. Antibiotics. Category

Abs. Jour : Ref Zhur-Biol., No 23, 1958, No 105735

: Belyayeva A.I. Author

Card:

Institut. : Rapid Method of Determination of Chlortetracycline Title

Activity (Ey May of Exchange of Experience)

: Intibiotiki, 1957, 2, No 4, 55-57 Oris Pub.

: Supervision of the activity of chlortetracycline by the Abstract

rapid method is accomplished in Petri dishes with two layers of agar: the lower layer consists of 2,5 agar on a phosphate buffer with a pH of 6.8-7.0; the upper one, of 1-1.2% agar, with 135 mg% of amine nitrogen (yeast digest à la Hottinger) and 1% glucese. The upper layer is seeded with 40-50 million bacillary spores of the mycoides type per cubic centimeter of nutrient agar. Incubation is carried out at 40° for the first hour, and then at 37° for three hours. This method shortens the time needed for determination of

activity by 13 hours and produces only a slight (±5, ±10%) divergence from the generally-accepted

biological method -- S. P. Shapovalova.

1/1 F=31

BELYAYEVA, A.I.; AVERINA, I.A.

Determination of pyridoxine by the microbiological method.
Lab.delo 7 no.7:22-23 Jl '61. (MIRA 14:6)

1. Kafedra propedevticheskoy terapii I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova.

(PYRIDOXINE)

BELYAYEVA, A. I. Editor

"Russian Scientists in Non-Ferrous Metallurgy," Moscow, 1950. 208 pages.

Evaluation B-82959

CHERNOKHVOSTOVA, Ye.V.; STARSHINOVA, V.S.; SMIRNOVA, M.A.; BELYAYEVA, A.I.

Conditions of the formation of typnoid antibodies of various physicochemical nature. Zhur.mikrobiol., epid. i immun. 42 no.2:13-19 F 165. (MIRA 18:6)

1. Moskovskiy institut epidemiologii i mikrobiologii, I Moskovskiy ordana Lenīna meditsinskīy institut i Moskovskaya gorodskaya sanitarno—epidemiologicheskaya stantsiya.

AUTHORS:

SOV/75-13-5-11/24 Morachevskiy, Yu. V., Belyayeva, A. I., Ivanova, L. V.

TITLE:

Separation of Uranium and Vanadium (K voprosu o razdelenii

urana i vanadiya)

PERIODICAL:

Zhurnal analiticheskoy khimii, 1958, Vol 13, Nr 5, pp 570-575

ABSTRACT:

For the separation of uranium and vanadium various methods are known (Refs 1-4). Many of them, however, give but an incomplete separation; especially in nearly neutral solutions the separation does not proceed completely. This fact leads to the conclusion that uranium and vanadium react with one another under these conditions. This conception is confirmed by the existence of uranovanadates in natural minerals and by the smoothly proceeding synthesis of uranovanadates in aqueous solutions. In a previous paper (Ref 5) the authors had proved that pentavalent vanadium forms with hexavalent uranium in aqueous solution the complex uranovanadate-anion. The corresponding acid is as well as its salts but little dissociated in water and precipitates already in concentrations of $5.10^{-5}g$ ion/1. The composition of this precipitate varies with the

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Separation of Uranium and Vanadium

SOV/75-13-5-11/24

change of the concentration ratio U:V in the solution. In order to attain a complete formation of the complex anion the precipitates were analyzed not before 24 hours after the combination. Since it is possible to synthesize compounds with a small ratio U:V whereat the share of vanadium is not an integer it can be concluded that one by one all OH-groups in the complex are substituted by metavanadate-anions VO3-. In dependence on the ratio U:V in the initial solution the precipitate is formed from one of the three following complex anions: Uranyl trimetavanadate [UO2(VO3)3]; uranyl hydroxodimetavanadate [UO2(OH)(VO3)2]; uranyl dihydroxometavanadate [U02(OH)2V03]. This assumption is in good accord with the composition of the natural uranovanadates. It is important when searching methods for the separation of uranium and vanadium to know the values for the solubility of these uranovanadates and the limits of the pH-values within which they remain stable. The present paper deals with these questions. Since it is practically impossible to separate the free complex acids from

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Separation of Uranium and Vanadium

SOV/75-13-5-11/24

the solutions in which they are formed, their ammonium salts were isolated for the investigation of the solubility. It was found that the uranovanadic acids precipitate at pH 2,2-6,5. In this pH-range the composition of the precipitate does not depend on the H^+ -ion concentration. It was seen that the formation of the ammonium uranyl trimetavanadate proceeds very slowly. With uranium concentrations of 5.10^{-4} g-atom/l and a threefold excess of vanadium this process is terminated at rcom temperature only after 3 months. Heating the solutions up to boiling this increases the formation velocity of the uranyl trimetavanadate to a considerable degree. The solubilities of NH₄[UO₂(OH)₂VO₃], NH₄[UO₂(OH)(VO₃)₂].1,5 H₂O and $NH_4[UO_2(VO_3)_3].3,5$ H_2O were determined and are given. They are within the magnitude of the solubility of the silverhalogenides. Conditions are given under which the best separation of U(VI)and V(V) is to be expected. There are 8 tables and 6 references, 5 of which are Soviet.

Card 3/4

. Separation of Uranium and Vanadium

SOV/75-13-5-11/24

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University imeni A. A. Zhdanov)

SUBMITTED:

July 1, 1957

Card 4/4

EREMENKO, V.V.; BELYAYEVA, A.I.

Characteristics of the absorption spectrum of manganese fluoride crystals. Fiz. tver. tela 5 no.10:2877-2884 0 '63. (MIRA 16:11)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR, Khar'kov.

HELYAYEVA, A.I.; YEREMENKO, V.V.

Temperature dependence of the width of the optical absorption bands in MnF2 crystals. Zhur. eksp. i teor. fiz. 44 no.2:469-471 F '63. (MIRA 16:7)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur ANUkrSSR.

ACCESSION NR: | AP4019210

s/0056/64/046/002/0488/0491

AUTHORS: Belyayeva, A. I.; Yeremenko, V. V.

TITLE: Effect of antiferromagnetic ordering on the optical absorption spectrum in manganese carbonate crystals

SOURCE: Zhurnal eksper. i teor. fiz., v. 46, no. 2, 1964, 488-491

TOPIC TAGS: magnesium carbonate, magnesium carbonate crystal, light absorption spectrum, antiferromagnetic ordering, optical absorption spectrum, antiferromagnetic ordering, optical absorption spectrum, Neel temperature, manganese fluoride, exchange interaction, optical band broadening, temperature frequency shift

ABSTRACT: To check on the universality of the influence of antiferromagnetic ordering previously discovered by the authors (ZhETF 44, 469, 1963), similar investigations were carried out on the absorption spectra of MnCo₃, which has different crystalline and fer-

Cord 1/42

romagnetic structures. The absorption spectra were obtained at temperatures from 4 to 300K, the absorption intensity being measured by photographic photometry. The optical absorption spectrum of MnCo₃ crystals was found to be very similar to that of MnF₂ crystals, with narrow bands observed due to the transitions $^6S_{5/2} \rightarrow ^6G_{3/2}$, with narrow bands observed due to the transitions $^6S_{5/2} \rightarrow ^6G_{3/2}$, and $^4P_{3/2}$ in the Mn²⁺ ion. All the observed MnF₂ bands are shifted by approximately the same amount towards the ultraviolet relative to the corresponding MnCo₃ bands. The frequency shift of all the optical bands increases on approaching the Neel point. The $^6S_{5/2} \rightarrow ^4D_{3/2}$ band narrowed down appreciably on cooling below the Neel temperature (29.4K), thus indicating that the observed antiferromagnetic ordering is a universal effect. The lack of anomaly in the temperature dependence of the bandwidths of the other transitions might have been due to a complex structure, which could not be

s/0181/64/006/007/1967/1974

AUTHORS: Yeremenko, V. V.; Belyayeva, A. I.

TITLE: Features of the spectrum of light absorption by manganese carbonate crystals near the Neel temperature

SOURCE: Fizika tverdogo tela, v. 6, no. 7, 1964, 1967-1974

TOPIC TAGS: manganese alloy, antiferromagnetism, optical spectrum, absorption band, frequency shift

ABSTRACT: Continuing an earlier effort (V. V. Yeremenko, A. I. Zvyagin, FTT v. 6, 1013) to clarify the factors that mask the influence of antiferromagnetic ordering on the optical spectrum, the authors investigated the absorption spectrum of MnCO₃ crystals,

since these differ from all other antiferromagnetic crystals previously investigated both in their crystallographic and their magnetic structures. The tests were made at 7000--2500 Å and 400--4.2K.

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Particular attention was paid to the frequency shift, and to the shape and intensity of the bands as the $MnCO_{3}$ crystal was cooled below the Neel temperature (29.4K). It was observed that all the investigated absorption bands connected with the optical transitions $^{6}S_{5/2}(^{6}A_{1g}) \rightarrow (^{4}G^{4}E_{g}^{4}A_{1g}), \rightarrow (^{4}T_{2g}), \rightarrow ^{4}D(^{4}E_{g}), \text{ and } \rightarrow ^{4}P(^{4}T_{1g})$ in the third shell of the Mn ion begin to shift rapidly to the short-wave region of the spectrum on approaching the Neel temperature. The value of the shift is close to the value of the Zeeman splitting of the ground state level 65 (6A) in an exchange field $H_E \approx 3 \times 10^5$ Oe. The temperature dependence of the halfwidth of the observed bands is made complicated either by the doublet structure of the transitions, or by interaction with the phonons. In the case of the D and F bands, a noticeable change in the temperature dependence is observed near the Neel temperature, where the asymmetry of the bands also increases markedly. The

anomaly in the temperature dependence of the frequency shift is approximately the same for all observed absorption bands. The peculiarities of the spectrum due to the antiferromagnetic ordering are discussed. "The authors thank corr. member of AN UkrSSR B. I. Verkin and Professor A. S. Borovik-Romanov for continuous help and support." Orig. art. has: 8 figures and 1 table, and 1 formula.

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR, Khar'kov (Physicotechnical Institute of Low Temperatures, AN UkrSSR)

SUBMITTED: 24Sep63

ENCL: 00

SUB CODE: EM, OP

NR REF SOV: 007

OTHER: 011

Card 3/3

L 182LL-65 EWT(1)/EPA(s)-2 Pt-10 IJP(c)/BSD/ASD(a)-5/AFETR/AS(mp)-2/ APGC(b)/SSD/AFWL/RAEM(a)/SSD(c)/RAEM(j)/ESD(gs)/ESD(t) GG ACCESSION NR: AP5000665 S/0181/64/006/012/3646/3652

AUTHORS: Yeremenko, V. V.; Belyayeva, A. I.

TITLE: Optical absorption spectra of crystals of <u>antiferromagnetic</u> cobalt compounds

13

SOURCE: Fizika tverdogo tela, v. 6, no. 12, 1964, 3646-3652

TOPIC TAGS: cobalt compound, optical absorption, absorption spectrum, single crystal, antiferromagnetism, polarization, ordered structure

ABSTRACT: The absorption spectra of single crystals of CoF_2 and $CoCO_3$ were investigated in the spectral range from 5500 to 3000 Å at temperatures from room temperature down to 4.2K. The procedure was analogous to that described earlier (FTT v. 5, 2877, 1963). The CoF_2 single crystals were grown at the Institut fizicheskikh problem AN SSSR from a melt in platinum crucibles in an atmosphere of

Card 1/3

L 18244-65

ACCESSION NR: AP5000665

hydrogen fluoride. The CoCO3 were grown by the hydrothermal method at the Institut kristalografii AN SSSR. Samples in the form of small plates were cut from both types of crystals. The authors identified the absorption bands due to the transitions in the unified 3d shell of the Co²⁺ ion in a cubic intracrystalline field. Details of the structure of the spectra and polarization effects are described. The influence of antiferromagnetic ordering on the spectrum is discussed. It is shown that antiferromagnetic ordering will not cause a radical shift of the absorption bands for the spinconserving transition (B-band in CoCO₂) only if the exchange integral in the excited state differs little from that of the ground state. "The authors thank N. N. Mikhaylov, S. V. Petrov, and N. Yu. Iskornikova for supplying the CoF2 and CoCO3 single crystals, and corresponding member of AN UkrSSR B. I. Verkin and Professor A. S. Borovik-Romanov for continuous interest in the work. Orig. art. has: 8 figures.

Card 2/3

L 18244-65

ACCESSION NR: AP5000665

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR, Khar'kov (Physicotechnical Institute of Low Temperatures,

AN UKISSR)

SUBMITTED: 06Apr64

ENCL: 00

SUB CODE: SS

NR REF SOV: 011 CTHER: 007

BELYAYEVA, A.I.; YEREMENKO, V.V.

Effect of antiferromagnetic ordering on the spectrum of light absorption by manganese carbonate crystals. Zhur. eksp. i teor. fiz. 46 no.2:488-491 F '64. (MIRA 17:9)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR.

YEREMENKO, V.V.; BELYAYEVA, A.I.

Optical absorption spectra of crystals of antiferromagnetic cobalt compounds. Fiz. tver. tela 6 no.12:3646-3652 D 164 (MIRA 18:2)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR, Khar'kov.

YEREMENKO, V.V.; BELYAYEVA, A.I.

Characteristics of the spectrum of absorption of light by manganese carbonate crystals near the Neel point. Fiz. tver. tela 6 nc.7:1967.7 1974 Jl 164. (MJRA 17:10)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSiE, Khar'kov.

AUTHORS: Yeremenko, V. V.; Belyayeva, A. I.; Marisova, S. V.
TITLE: On the nature of the structure of the long-wave absorption edge of light in crystals of mercury iodide
SOURCE: Optika 1 spektroskopiya, v. 18, no. 5, 1965, 820-824
TOPIC TAGS: mercury compound, manganese compound, absorption edge, light absorption, absorption spectrum
ABSTRACT: The authors investigated the absorption spectra of light in the crystals HgI_2 and $MnCl_2$, and in the solid solutions $HgI_2(X)$ -
$Cdl_2(1 - X)$ and $MnCl_2(X) - CdCl_2(1 - X)$ at 20.4K. The purpose of the
investigation was to obtain more details on the mechanism of photoconductivity and luminescence of the HgI 2 crystals, and especially
to clarify the mechanisms of long-wave absorption of HgI2 by inves-
Card 1/3

modification with the spectra of the vapor. The light source was a
high power discharge lamp with an intense continuous spectrum. The
spectra were photographed with prism spectrographs. The crystals
were grown by cooling a drop of melt in a special quartz cuvette
which yielded samples of specified thickness. The tests show that
the electron transitions causing the long-wave absorption in the
erystals of the low-temperature red modification of Belg are not
localized within a single cell. This is evidenced by the absence
of any similarity with the optical absorption specimum of Hall war and
and the sharp influence of the phase transition (at 1.30) on the
spectrum. The weak broadening of the absorption in the wind have
spectrum, the weak bloadening of the action of the state
freduction of impurities CdI apparently significant and residence
of the corresponding excited state is sufficiently labeled to produce
out the inhomogeneity of the structure. The absorption at light an
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L 61:507-65

(26,977 cm) is very close to the start of the intense absorption of light in the HgI vapor (29,400 cm 1). Orig. art. has: 5 figures.

ASSOCIATION: None

SUBMITTED: 05Apr64 ENCL: 00 SUP CODE: 07

NR REF SOV: 005 OTHER: 002

L 1563-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(e) JD/JG
ACCESSION NR: AP5019215

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	SSOCIATION: Problems, Academy Akademii Academy of Bo BUEMITTED:	nauk Ukrai eiences, Uk	nskoy SBR (); Fiziko-tek Physicotechni ENCL: 00 OTHER: 00		SUB CODE:	izkikh temper Temperatures,	
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L 23028-66 EWT(1)/EWT(m)/T IJF(e) JD/HW

ACC NR: AP6009660 SOURCE CODE: UR/0181/66/008/003/0783/0787

AUTHORS: Pisarev, R. V.; Belyayeva, A. I.; Syrnikov, P. P.

ORG: Institute of Semiconductors, AN SSSR, Leningrad (Institut poluprovodnikov AN SSSR)

TITLE: Structure of energy levels and exchange interaction of Co²⁺ ions in NaCoF₃

SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 783-787

TOPIC TAGS: energy band structure, cobalt compound, single crystal, light absorption, optic transition, line shift

ABSTRACT: The authors investigated the spectrum of optical absorption of NaCoF₃ in the interval from 5,000 to 30,000 cm⁻¹ (2 -- 0.33 \mu).

The single crystals were obtained by chemical reaction of NaCl with CoF₂. The experiments were made in tightly sealed platinum crucibles. The absorption spectra were investigated in the ultraviolet and

Card 1/2

L 23028-66
ACC NR: AP6009660
visible regions using diffraction spectrographs (DFS-8 and DFS-12)
and a double prism monochromator (DMR-4). The measurements were made at 4.2, 20.4 -- 60, 77, and 295K. The observed absorption bands are identified with transitions inside the 3d electron shell of the Co²⁺ identified with transitions inside the 3d electron shell of the Co²⁺ ion in a cubic crystalline field. It is shown that near 35K one of the absorption lines is strongly shifted, owing to the transition of the NaCoF₂ into a magnetically-ordered state. It is observed that at low temperatures the state ²E(²H) splits into two lines ($\Delta v = 36$ cm⁻¹), one of which disappears when the temperature is raised to 60K. The possibility that this splitting is due to exchange interaction between the paramagnetic ions is discussed, although the data obtained so far do not prove this completely. The authors thank G. A.

Smolenskiy for interest in the work and a discussion of the results, Smolenskiy for interest in the work and a discussion of the results, and E. V. Matyushkin V. V. Yeremenko for a discussion of the results, and E. V. Matyushkin for help with the measurements. Orig. art. has: 4 figures, 2 formulas and 1 table.

SUB CODE: 20/ SUBM DATE: 24Ju165/ ORIG REF: 002/ OTH REF: 005

Card 2/2

1JP(c) GG/ 14 $F_{-}\Gamma(1)$ L 40172-66 UR/0056/66/050/006/1472/1477 SOURCE CODE: ACC NR: AP6020200 AUTHOR: Belyayeva, A. I.; Yeremenko, V. V.; Mikhaylov, N. N.; Pavlov, V. N.; Petrov, S. V. ORG: Physicotechnical Institute of Low Temperatures, Academy of Sciences, Ukrainian SSR (Fiziko-tekhnicheskiy institut nizkikh temperatur Akademia nauk Ukrainskoy SSR); Institute of Physical Problems, Academy of Sciences, SSSR (Institut fizicheskikh problem Akademii nauk SSSR) TITLE: Magnon and phonon excitation during light absorption in antiferromagnetic NiF, SOURCE: Zh Eksper i teor fiz, v. 50, no. 6, 1966, 1472-1477 TOPIC TAGS: magnon, phonon, magnon excitation, phonon excitation, light absorption, nickel fluoride, antiferromagnetic material, NICKEL COMPOUND, FLUORIDE;

ABSTRACT: The structure of the $^{3}A_{2g}$ + $^{1}T_{2g}$ transition in the absorption spectrum of antiferromagnetic nickel fluoride at temperatures between 4.2 and 77K has been analyzed on the basis of experimental data on its vibrational frequencies. It has been shown that bond it = 20.622 cm⁻¹ and hand it = 20.717 cm⁻¹ are due to alcotron been shown that band $v_{\rm I}$ = 20,622 cm⁻ and band $v_{\rm II}$ = 20,717 cm⁻¹ are due to electron-magnon transitions with the formation of one and two magnons, respectively, with maximum frequencies. The maximum frequency of the magnon $v_{\rm m}=100~{\rm cm}^{-1}$. The magnon

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Card 1/2

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SUB C	ODE:	20/	SUBM DATE:	13Jan66/	ORIG	REF:	002/	OTH REF:	005		
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ACC NRI APOO37000 (A, N)

SOURCE CODE:

UR/0181/66/008/011/3397/3400

AUTHOR: Antonov, A. V.; Belyayeva, A. I.; Yeremenko, V. V.

ORG: Physicotechnical Institute of Low Temperatures, AN UkrSSR, Khar'kov (Fizikotekhnicheskiy institut nizkikh temperatur AN UkrSSR)

TITLE: Low temperature anomaly in the absorption spectra of antiferromagnetic ${\tt RbMnF_3}$ and ${\tt RbinF_3}$

SOURCE: Fizika tverdogo tela, v. 8, no. 11, 1966, 3397-3400

TOPIC TAGS: absorption spectrum, antiferromagnetic material, Neel temperature, temperature dependence, low temperature research, line splitting, luminescence spectrum

ABSTRACT: This is a continuation of earlier work (FTT v. 6, 3646, 1964 and preceding) and is devoted to the C-group (~3900 Å) of bands in the absorption spectrum of antiferromagnetic RbMnF3 (Neel temperature $T_N=82$ K) and KMnF3 ($T_N=88$ K), whose structure becomes quite complicated at $T<T_N$. The measurement procedure was described earlier (FTT v. 6, 1967, 1964). Investigations were made at 4.2 - 200K. The absorption spectrum was photographed with a diffraction spectrograph (DFS-8) and then photometrized (MF-2 microphotometer). The results show that with decreasing temperature the number of bands in the C group increases from two to seven in the case of RbMnF3 and six in the case of KMnF3, in analogy with the splitting observed for other antiferromagnetic crystals. The temperature dependence of the most intense of the bands was also investigated and the connection between the anomalies in the absorp-

Card 1/2

ACC NR: AP6037000

tion spectrum and the anomalies in the luminescence spectrum of RbMnF3 and KMnF3 is discussed. It is deduced that the anomaly in the absorption spectrum, observed by the authors for the first time, can also be related to the ordering of the spins of the excited Mn⁺⁺ ions. Particular attention is paid to the temperature dependence of the first band to appear with decreasing temperature (C₂), which exhibits an anomaly below 30K, and which is a magnon satellite of one of the original bands (C₁). Orig. art. has: 2 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 23May66/ ORIG REF: 004/ OTH REF: 008

Card 2/2

DOTSENKO, T.K.; SURCHAKOV, A.V.; BELYAYEVA, A.M.; KOROTOVSKAYA, N.T.; GOLUBYATNIKOV, F.I.; KOZLOVA, M.F.

Use of new insecticides in controlling synanthropic flies in nonisolated sectors. Med.paraz.i paraz.bol. no.3:355-359 162. (MIRA 15:9)

1. Iz Kuybyshevskogo nauchne-issledovatel'skogo instituta epidemiologii, mikrobiologii i gigiyeny (dir. K.P. Vasil'yev), Gorodskoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach A.A. Galaktionova, zav. parazitologicheskim otdelom N.T. Korotovskaya) i Gorodskoy dezinfektsionnoy stantsii (zav. M.F. Kozlova).

(FLIES-EXTERMINATION) (INSECTICIDES)

L 1964-66 EWT(m)/EWP(j) ACCESSION NR: AP5021783 UR/0068/65/000/008/0039/0042 668.74 AUTHOR: Novikov, Ye. G.; Aksenova, T. F.; Belyayeva, A. M. TITLE: Preparation and properties of carbazole-phenol-formaldehyde resins SOURCE: Koks i khimiya, no. 8, 1965, 39-42 TOPIC TAGS: carbazole, formolite resin, formaldehyde, heat resistant plastic ABSTRACT: Hydrocarbon - phenol-formaldehyde resins (formolites) based on carbazole were synthesized in two steps: condensation of carbazole with formaldehyde in an alkaline medium produced the low-melting and reactive N-methylolcarbazole, and the latter was then condensed with formaldehyde in an acid medium. The conditions of preparation of N-methylolcarbazole were studied by ultraviolet spectroscopy. It was found that in order to obtain the formolite, the raw material used may be commercial carbazole with a concentration not below 85% containing no more than 3% phenanthrene. The synthesis of the carbazole-phenol-formaldehyde resins consisted in filling the reactor with 1 pt. by wt. of the formolite, 2 pts. by wt. of phenol, and formalin, the required amount of which was determined by preliminary analysis. The catalyst Card 1/2

L 1964-66	and the second s					
ACCESSION NR: AP5	021783		· ·	English rama 1 mari yesari iliyo tama ca	0	
(hydrochloric acid 3 hr, then the res Orig. art. has: 7	in was dried. T					
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NEVMERZHITSKAYA, E.A.; BELYAYEVA, A.N.; POFROTSKAYA, V.A.; KUDRYAVTSEVA, R.A.

Studying the composition of gas from methane electrocracking.

Khim. prom. 41 no. 12:895-896 D *65 (MIRA 19:1)

A.P. BUJYAYEVA

Sem/flot 18

USSR/Medicine - Policemelitis
Medicine - Infection, Experimental

"Policerolitis; T. Direase in Monkbys, Coused by Moneow and Rice Virus Strains,"
M.E. Voroshilova, H.P. Chumankov, A.P. Pelyryeva, T.A. Shutova, See of Heureviruses, Inst
Of Neurol, Acad Med Sci USSE, 5 pp

"Nevropatol i Psibhiat" Vol XVII, No 5

Describes infection of monkeys with filtrates obtained from homen policipolitic visits with five diagrams, and two photographs. Submitted 2 April 48.

PA 23/49TE5

BELYAYEVA, A.P.

CHUMAKOV, M.P., A.P. BELYAYEVA, AND S.G. DROZDOVA

"On the Nature of the So-called Two-Wave Milk Fever and Its Connections with the Tick-Transmitted OGL (Omsk Hemorrhagic Fever), Tick (Spring-Summer) Encephalitis, and Scotch Tick Encephalitis of Sheep" by M.P. Chumakov, A.P. BELYAYEVA, and S.G.Drozdova.
W-31019, July 54, # 26 Oct 54

USSR/Medicine - Q-Fever BELYAYEVA, A. P.

FD 153

Card 1/1

Author

: Chumakov, M. P.; Belyayeva, A. P.; Shifrin, I. A.; Khodukin, N. I.;

and Lysunkina, V. A.

Title

: The study of Q-fever in the USSR. I. Data on the Identification of

Q-fever infections.

Periodical: Zhur. mikrobiol. epid. i immun. 5, 40-48, May 1954

Abstract

: By preparing a highly active specific antigen of R. burnetti and using it to carry out complement fixation and agglutination reactions, Q-fever was detected in a number of oblasts in the USSR. Q-fever was also identified etiologically by isolating strains of R. burnetti from the blood of persons suffering from a typical fever, and from the ticks, Hyalomma anatolicum. The investigations are illustrated by 4 charts, a graph and a microphotograph. Many other persons working on Q-fever are mentioned,

but no references are cited.

Institution:

Submitted

: July 21, 1953. Presented at a scientific conference of the Institute of Virology of the Academy of Medical Sciences USSR, December 1, 1952.

BELYAYEVA, A. P.

"Study of Pathogenic Virus of Omsk Hemorrhagic Fever." (Dissertation for Degree of Candidate of Medical Sciences) Acad Med Sci USSR, Moscow, 1955

SO: M-1036 28 Mar 56

POLYMYSTA, A. P., CHUBAKOY, M. P., MYASMIKSV, YU. 1., LESUCUTUSKIYA, M. V., POYMITAHIDA, J. P., LEYKENETAN, E. P., SHIBBH, M. A., GURBAGERIS, M. A., LEONARDOVA, G. A., GOLIKOV, K. K., ARRELDGELISKIY, A. A.

"Mew data on the Tule fever with a renal syndrome, and the natural reservoirs of this infection." p. 125

Desystore soveshchaniye no parazitllosicheskim problemen i prinodnocehapovym boleznych. 22-20 Oktyabrya 1959 r. (Tenth Conference on Parazitalosical Problems and Diseases with Natural Foci 22-29 October 1959), Moscow-keninguad, 1959, Academy o Medical Science USER, and Condery of Schences USER, No. 1 25bps.

BELYAYEVA, A.P.

BALAYAN, M.S.; BELYAEVA, A.P.; SEIBIL, V.B.

Use of the precipitin test in the diagnosis of infections caused by ECHO and Coxsackie viruses. Actavirol. 7 no.3:241-249 My '63.

1. Institute of Poliomyelitis and Viral Encephalitides, U.S.S.R. Academy of Medical Sciences, Moscow.

(ECHO VIRUSES) (ENTEROVIRUS INFECTIONS) (DIAGNOSIS)

(COXSACTIE VIRUS INFECTIONS) (PRECIPITIN TESTS)

TSUKER, M.B.; VORGJETLOVA, M.K.; LESHCHINSKAYA, Ye.V.; BELYAYEVA, A.P.; ANDREYEVA, A.S.

Problem of policyelitis-like diseases. Zhur. nevr. i psikh. 63 no.10:1472-1477 163. (MIRA 17:5)

1. Institut polipmiyelita i virusnykh entsefalitov (dir. -prof. M.P. Churakev) AMN SSSR, Moskva.

SHESTOPALOVA, N.M.; REYNGOL'D, V.N.; GAVRILOVSKAYA, 1.N.; BELYAYEVA, A.P.; CHUMAKOV, M.F.

Electron microscopic study of the morphology and localization of Omsk hemorrhagic fever virus in cells of the infected tissue culture. Vop. virus. 10 no.4x425-430 J1-Ag 165.

(MIRA 18:8)

1. Institut poliomiyelita i virusnykh entsefalitov AMN SSSR, Moskva.

BELYAYEVA, A. P.

"Fast Method of Determining Sulfur in Coal and Coke," Zavod. Lab., 14, No.8, 1948
Metallurgical Factory im. Petrobskiy

22184

S/048/61/025/004/033/048 B117/B212

24,3500

AUTHORS: Sorkin, F. V., Belyayeva, A. P., and Borodin, N. S.

TITLE: Application of electroluminescence for the development of

sign indicators

PERIODICAL: Izvestiya Akademii nauk SSSR. Seriya fizicheskaya, v. 25, no. 4, 1961, 527-529

TEXT: The present paper was read at the 9th Conference on Luminescence (crystal phosphors). It gives a report on the development of electroluminescence indicators (EL indicators). Green luminous electroluminophors PMTX (GIPKh) have been used; ZnS - 0.2% Cu, 0.05% Al. An EL sign indicator is a flat luminescent screen (condenser), one of its electrodes is a transparent conducting coating of SnO₂; the other electrode, a metal

one, is made of a number of segments. These are produced by thermal vaporization of Al or Ag on a pattern (in a vacuum). If a voltage is applied to the common (transparent) electrode and to the corresponding segment they will start glowing. In order to assure a dependable indicator operation, a new method has been suggested for the production of Card 1/3

22184 \$/048/61/025/004/033/048 B117/B212

Application of electroluminescence...

metal electrodes: In a vacuum a copper coating will be applied to the EL coating in form of powder. Then, a 10 to 15 \mu thick copper coating is electrodeposited. After this, a pressure method is used. This method makes it possible to provide EL indicators with durable metal electrodes made of a galvanic copper foil. Voltage is applied to them via soldered conductors. The method suggested is also suitable for making grooved and mosaic luminescent screens and other EL equipment. Tests of the servicelife of EL elements have shown that the method suggested does not impair the aging characteristics. The principal criterion to distinguish the sign at the EL-sign indicator is the contrast between sign and background. The best results to increase the contrast can be attained by decreasing the coefficient cof reflection for the sign board . Calculations show that the contrast will increase strongly at a constant outer illumination if Q is decreased. EL indicators with a small coefficient of reflection possess a thin (25 \div 30 μ) electroluminophor layer (mixed with plastic and nearly disappearing) which has been applied to an absorbing plastic layer colored with nigrosin. The application of sublimate phosphors is very promising. The method suggested has the advantage over light filters that not only the brightness of the background is decreased but also the halation is

Card 2/3

Application of electroluminescence...

S/048/61/025/004/033/048 B117/B212

eliminated. Sign indicators of this type can operate at a strong outside illumination (200 ÷ 500 lux). In order to test the service-life of EL indicators electroluminophors have been investigated in a solid dielectric (ЭП-096 (EP-096)). It has been found that moisture will play an important role during aging. A rapid brightness drop can be referred to an electrochemical change of the luminophor under the influence of an electric field and moisture. Tests have shown that in order to prolong the service-life of EL indicators they have to be sealed. Covering the luminescent side of the EL indicator with epoxyde compound will protect it against moisture. There are 2 figures and 4 references: 1 Soviet-bloc and 3 non-Soviet-bloc. The three references to English language publications read as follows: S. Roberts, J. Appl. Phys., 28, no. 2, 262 (1957); G. Diemer, H. Klasens, P. Zalm, Philips Techn. Rev., 19, no. 1 (1957); P. Zalm, G. Diemer, H. Klasens, Philips. Res. Repts. 2, 81 (1951).

Card 3/3

SORKIN, F.V.; BELYAYEVA, A.P.; BORODIN, N.S.

Use of electroluminescence for designing sign indicators.

Izv. AN SSSR. Ser. fiz. 25 no.4:527-529 Ap '61. (MIRA 14:4)

(Electronic calculating machines—Input-output equipment)

(Imminescent substances)

KULEV, L.P., GIREVA, R.N., HELYAYEVA, A.P.

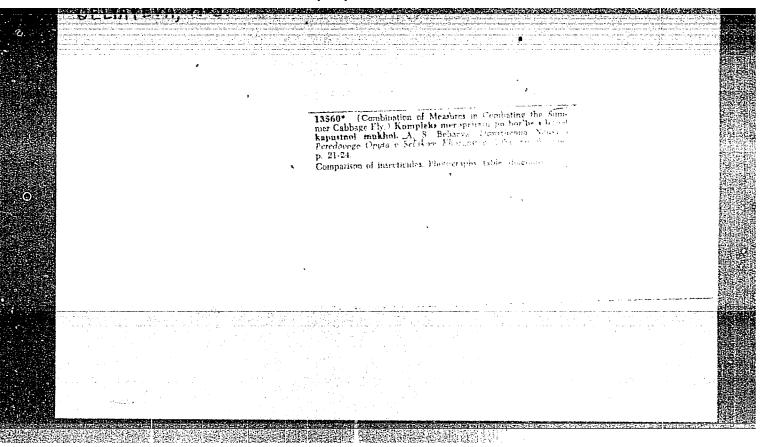
Diphenic acid esters. Part 4: Monoaryl esters of diphenic acid and their insecticide activity. Tav. TPI 126:53-54 '64. (MIRA 18:7)

L 1928-66 EWT(1)/EWA(1)/EWT(m)/EWA(D)-2 RU/00/nn SOURCE CODE: UR/0000/65/000/000/0300/0302 AUTHOR: Kulev, L.P. Deceased); Gireva, R.N.; Kovalenok, A.V.; Belyayeva, A.P. ORG: Tomsk Polytechnic Institute imeni S. M. Kirov (Tomskiy politekhnicheskiy institut); Tomsk State University (Tomskiy gosudarstvennyy universitet) TITLE: Insecticide activity of esters of 9-fluorenone-4-carboxylic acid and their oximes / SOURCE: AN SSSR. Otdeleniye obshchey i tekhnicheskoy khimii. Biologicheski aktivnyye soyedineniya (Biologically active compounds). Moscow, Ivd-vo Nauka, 1965, 300-302 TOPIC TAGS: insecticide, organic oxime compound, keto carboxylic acid ABSTRACT: Phenyl esters of 9-fluorenone-4-carboxylic acid were prepared by reacting the corresponding phenol with the acid in the presence of phosphoryl chloride. Chloro-substituted ethyl esters were obtained by catalytic esterification in the presence of anhydrous metal halides. Dimethylaminoethyl esters were obtained from the acid chloride and dimethylaminoethanol. The oximes were synthesized by treating the esters with hydroxylamine in an alkaline water-alcohol solution. Tests of the insecticide activity of the compounds obtained were carried out on the housefly and the rice weevil. 1-naphthyl and 2,4-dinitrophenyl esters, and oximes of 4-nitro-, 2,4-, and 2,6-dinitrophenyl esters were the most toxic compounds. It was noted that in many cases the substitution of an oxime group for the keto group increases the insecticide activity of a compound. Orig. art. has: 1 table. SUB CODE: CB, OC, GO / SUBM DATE: 23Sep63 / ORIG REF: 003 / OTH REF: 003

Card 1/1

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_L 07487-67		
ACC NR: AP6035843 (A,N) SOURCE CODE: UR/0413/66/000/020/0054/0054	7	
INVENTOR: Sorkin, F. V.; Belyayeva, A. P.		
ORG: none		
TITLE: Electroluminescent symbol indicator with variable glow color. Class 21,	·	_
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 20, 1966, 54		
TOPIC TAGS: electroluminescence, visible light, electronic circuit		
ABSTRACT: An Author Certificate has been issued for an electroluminescent symbol indicator with variable glow color. Two electrodes are used to control the glow color of the reproduced symbols: 1) a raster screen formed from alternating luminophor strips that have different glow colors and form two comb-shaped electrode systems, and 2) conducting symbol plates that form different alphanumeric combinations.		
SUB CODE: 09/ SUBM DATE: 17Jan61/ ATD PRESS: 5104		
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Card 1/1/mle UDC: 621.397.132		



BELYAYEVA, A-S.

BELYAYEVA, A.S.

"Control of Pests and Diseases of Vegetable Crops" Sad i Ogorod, No. 3, March 1956

Full trans in Trans No. A-741, Microfilm No. 9006535

Sovkhoz imeri M. Gor'kogo, Moscow suburb

BELYAYEVA, A.S., agronom-entomolog

Chemical methods of treating vegetable crops and the sanitary and hygienic evaluation of these methods. Zashch.rast.ot vred.i bol. 4 no.3:32-34 My-Je '59. (MIRA 13:4)

1. Sovkhoz imeni Gor'kogo, Moskovskoy oblasti.
(Vegetables-Diseases and pests) (Insecticides)
(Fungicides)

BELYAYEVA, A.S.

3/020/62/144/002/028/028 B144/B101

AUTHORS:

TITLE:

١

Tsitsin, N. V., Academician, Cherkasskiy, Ye. S., Bushchik, T. N., Shmal'ko, V. F., Lyadova, G. L., Kilimnik, Yo. Ye.,

and Belyayeva, A. S.

Latest about the struggle against cabbage maggets (Chortophila brassicas Bouché and Ch. floralis Fall.)

PORIODICAL: Akademiya nauk SSSR. Doklady, v. 144, no. 2, 1962, 457 - 460

TEXT: A cheap insectofungicidal repellent dust MTPA (IFRD) was prepared from by-products of the production of activated creedin (AC) and hexachloro cyclohoxane (HCCH) by mixing with peat or other fillers. In 1960 excellent results were obtained in small-scale tests by dusting cauliflower, with 10-12 r of coarse-grained peat creedin dust per plant (AC excellent results were obtained in small-scale tests by queting cauliflower, with 10-12 g of coarse-grained peat creedin dust per plant (AC - coarse mixture of 1:3). Oviposition before the test, damage to roots and peat mixture of 1:3). number of maggots during the crop were observed. One treatment was sufficient for initial oviposition (single eggs on 4-8 % of the plants); two dustings were applied at 14-day interval with massive oviposition (on 74.7% of the plants). A finer-grained preparation was used in 1961, card 1/3

S/020/62/144/002/028/028_ B144/B101

Latest about the struggle against

which reduced considerably the consumption. Treatment with IFRD was carried out as follows by: immersing the root before planting in 0.5, 1, and 2 % suspensions for 1-3 min; putting into peat human pots (250, 300, 550, and 500 g per 10 kg of peat mixture); placing in the planting holes (10, 20, 50 g per hole); sprinkling the root with 50 cm² of 3, 5, and 10 % suspension; dusting the collum (1-6 g). The latter method was the most suspension; dusting the collum (1-6 g). The latter method was the most of efficient. Similar results were obtained by sprinkling with 50 cm² of efficient. Similar results were obtained by sprinkling with 50 cm² of vield increases (2-24 tons per ha) were attained for several varieties of yield increases (2-24 tons per ha) were attained for several varieties of cauliflower and head cabbage (no. 1, Chinese, and 'Slava' cabbage) by one or two dustings with 3-6 g of IFRD after initial or massive oviposition, or two dustings with 3-6 g of IFRD after initial or massive oviposition, penetration of the liquid. Plant and fruit were not unfavorably affected. First residues in the cabbage were not found by the Sanitarno-Epidemiological epidemiologicheskoy stantsiya Moskvy (Moscow Sanitation Epidemiological epidemiologicheskoy stantsiya Moskvy (Moscow Sanitation Epidemiological Station). IFRD is harmless to workers, and not inforior in efficiency to expensive organochlorine compounds. There are 2 tables.

Card 2/3

ASSOCIATION: Glavnyy botanicheskiy sad Akademii nauk SSSR (Main Botanical Garden Academy of Sciences USSR): Opytno-Sovkhoz imeni Mossovet); Sovkhoz im. Mossoveta (Experimental and Model (Sovkhoz imeni A. M. Gor'kogo

SUBMITTED: February 9, 1962

Card 3/3

TSITSIN, N.V., akademik; CHERKASSKIY, Ye.S., prof.; BUSHCHIK, T.N., kand. biolog.nauk; SHMAL'KO, V.F., kand.sel'skokhoz.nauk; LYADOVA, G.L., agronom; KILIMNIK, Ye.Ye., agronom;; BELYAYEVA, A.S., agronom

Preparation for controlling the cabbage maggot. Zashch. rast. ot vred. i bol. 7 no.7:33-34 Jl '62. (MIRA 15:11)

1. Glavnyy botanicheskiy sad AN SSSR. Oporno-pokazatel'nyy sovkhoz imeni Mossoweta. Sovkhoz imeni Gor'kogo.

(Moscow Province-Cabbage maggot-Extermination)

(Insecticides)

RELYAYEVA, A.S., agronom; KALMIKOVA, A.M., agronom

Protecting vegetable crops in greenhouses on the M. Gor'kii State Farm. Zashch. rast. ot vred. i bol. 7 no.10:4-7 0 '62. (MIRA 16:6)

1. Sovkhoz imeni M. Gor'kogo.

(Vegetable gardening)

(Spraying and dusting in agriculture)

(Greenhouse management)

TSITSIN, N.V., akademik; CHERKASSKIY, Ye.S.; BUSHCHIK, T.N.; SHMAL'KO, V.F.; LYUDOVA, G.L.; KILIMNIK, Ye.Ye.; BELYAYEVA, A.S.; Prinimali uchastiye: AZIYASHVILI, L.N.; ANTONOVA, I.I.; VOLKOVA, A.A.; DOBROCHINSKAYA, I.B.; MIROSHNICHENKO, O.N.; YUZHAKOVA, N.P.

New data on the control of cabbage flies (Chortophila brassicae Bouche and Chortophila floralis Fall.). Dokl.AN SSSR 1/4 no.2:457-460 My 162. (MIRA 15:5)

1. Glavnyy botanicheskiy sad AN SSSR, Opytno-pokazatel'nyy sovkhoz im. Mossoveta i Sovkhoz im. A.M.Gor'kogo.
(Cabbage-Diseases and pests)

BELYAYEVA, A.T.; NAMAZOVA, A.A.

Significance of vectorcardiography in the evaluation of ventricular hypertrophy in patients with a defect of the interventricular septum. Sov. med. 28 no.9:10-17 S '65. (MIRA 18:9)

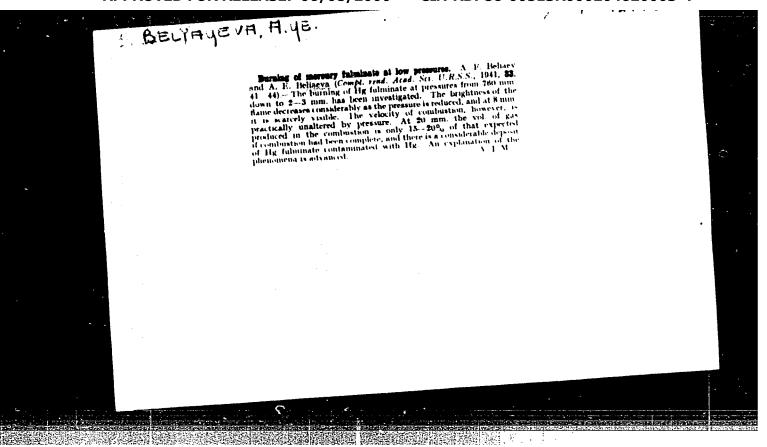
1. Institut klinicheskoy i eksperimental'noy khirurgii (dir. - deystvitel'nyy chlen AMN SSSR prof. B.V.Petrovskiy) Ministerstva zdravookhraneniya RSFSR i 1-ya klinika starshego detskogo vozrasta (zav. - deystvitel'nyy chlen AMN SSSR prof. O.D.Sokolova-Ponomareva) Instituta pediatrii (dir. - dotsent M.Ya.Studenikin) AMN SSSR, Moskva.

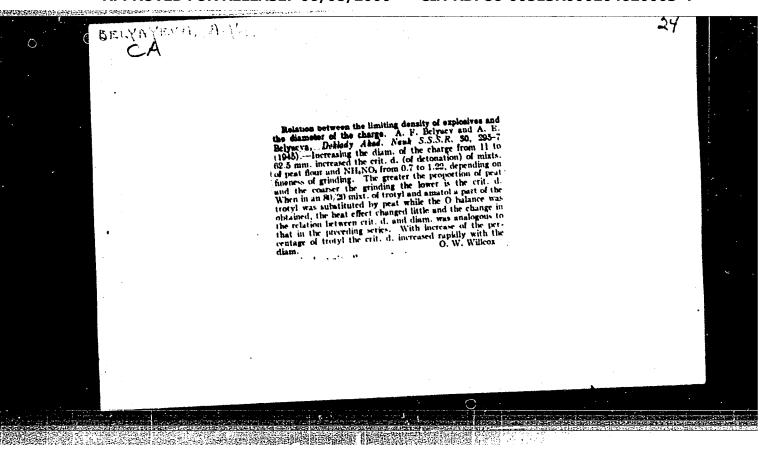
BELYAYEVA, Anna Vsil'yevna, istorik-etnograf narodov Severa; STEBAKOVA,, L.N., redaktor; STANESVICH, A.A., tekhnicheskiy redaktor

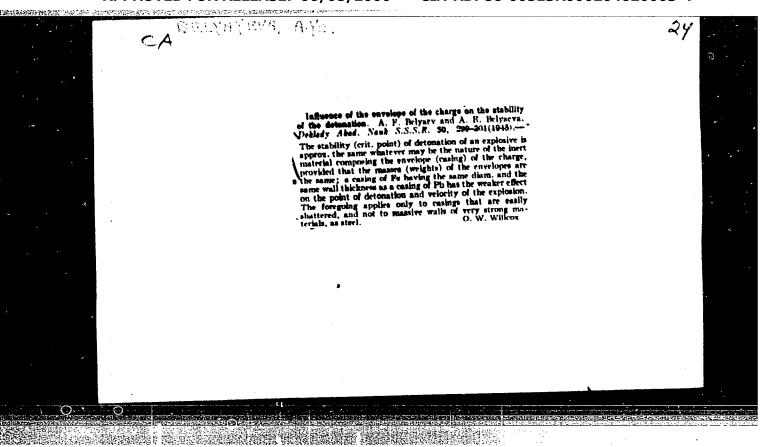
[Russians in the Far North; historical and geographical sketch of Magadan Province] Russkie na Krainem Severe; istoriko-geografiche-skii ocherk Magadanskoi oblasti. Magadan. Obl.kn-vo. 1955. 71 p. (Magadan Province--History) (MIRA 9:12)

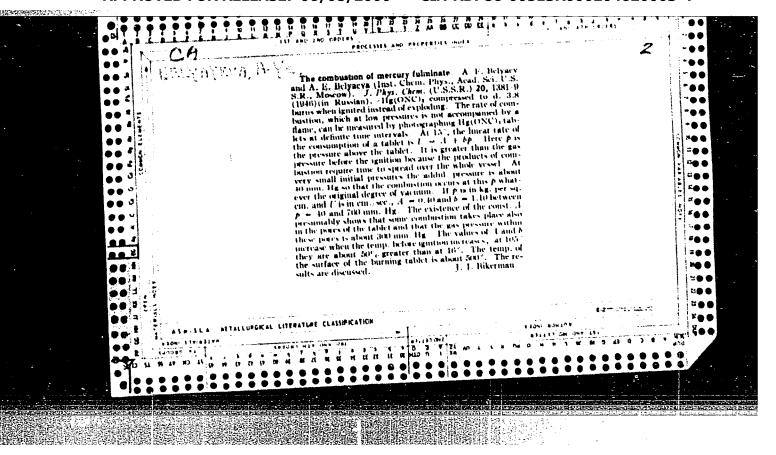
BELYAYEVA, A. Ya-author of "Relation of sulfading urinary secretion to temperature conditions."

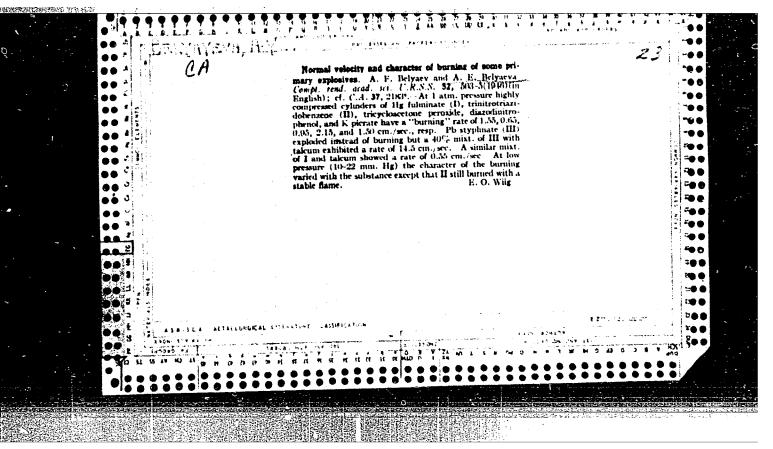
SO: Works of the Turkmen Sci Res Skin-Veneral Inst, Vol II, 1947, p 178-9, Unclas oh











USSR/Human and Animal Physiology. Blood.Blood Transfusions and Blood Substitutes.

T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55462.

Author : Bagdasarov, A.A., Belyayeva, B.F., Rogacheva, L.S.

Inst

Title : Hemotherapy in Radiation Sickness.

Orig Pub: Med. radiologiya, 1956, 1, No 5, 45-50.

Abstract: Dogs (54) were subjected to X-Ray irradiation, which was given in a dose of 600 r. Blood and erythrocyte (E) transfusions on the 5-15 day of acute radiation sickness (RS), intensified the decay of E and made the development of hemorrhagic diathesis more acute.

Transfusions of the protein solution of TsoLIPK [?]
No 1 (I), combined with a complex therapy made it possible to sharply reduce the amounts of transfused

Card : 1/3

USSR/Human and Animal Physiology. Blood. Blood Transfusions and Blood Substitutes.

T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55462.

blood and of E. Early transfusions of (I) partly reduced the development of hemolysis. Thus, deep anemia did not develop in the majority of the dogs. Fractional transfusions of the protein solution (II) partly prevented the development of a hemorrhagic syndrome and of bone marrow aplasia. Such transfusions also improved the activities of the heart and of the vessels. In acute RS the administration of a leukocytic mass (IM) of cationitic blood did not have any therapeutic effect. Combined, however, with the (I) and (II) transfusions, it increased the survival rate. Infusions were begun when a state of deep leukopenia existed, and they were given 10-11 times daily, or with an interval

card : 2/3

55

USSR/Human and Animal Physiology. Blood. Blood Transfusions and Blood Substitutes.

T-4

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55462.

of 1-3 days. At the end of the third and the beginning of the fourth week after irradiation, the leukocyte count increased basically, usually at the expense of granulocytes. During the second month, it was completely restored, and at the same time the bone hematosis was normalized. In chronic RS, the infusion of IM contributed to an increase of the leukocyte count to 2,000-4,000 per 1 mg at the end of the treatment. In the majority of the cases the number of granulocytes and thrombocytes increased simultaneously. Thus, IM transfusions are especially useful during the periods of intensified hemolysis when blood transfusions are contraindicated. The RS treatment must be complex and individualized.

Card : 3/3

USSR/Human and Animal Physiology (Normal and Pathological). Effects of Physical Factors. Ionizing Radiation. T-15

Abs Jour

: Rof Zhur - Biol., No 11, 1958, 51439

Author

: Shamshina, Ye.V., Nikolayeva, N.V., Belyayeva, B.F.

Inst

Title

: Regeneration Processes of Done Marrow Heratogenesis in

Acute Radiation Sickness.

Orig Pub

: Probl. genatol. i perelivaniya krovi, 1957, 2, No 2, 13-14,

Abstract

: The role of red and white bone marrow markings in processes of hematogenetic regeneration were analysed. Functional investigation data of smears from specimen obtained through a sternal puncture of 75 dogs, who were subjected to general roentgen irradiation with a 600 r dosage (and subsequent therapy) were used. The processes were directly connected with the functional state of erythropoiesis.

It is to be assumed that restoration of active

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CIA-RDP86-00513R000204620003-4" APPROVED FOR RELEASE: 06/08/2000

BAGDASAROV, A. A., VINOGRADOV-FINKEL, F. K., RAUSHENBAKH, M. O., BOGOYAVLENSKAYA, M. P., RODINA, R. I., BELYAYEVA, B. F., ABDULLAYEV, G. M. and LACUTINA, N. Y.

"Experience of Treatment and Prophylaxis of Radiation Disease with Leucocyte and Thrombocyte Masses."

paper to be presented at 2nd UN Intl. Conf. on the peaceful uses of Atomic Energy, Geneva, 1 - 13 Sep 58.

BAGDASAROV, A.A., prof.; RAUSHENBAKH, M.O., prof.; ABDULLAYEV, G.M.; BELYAYEVA, B.F.; LAGUTINA, W.Ya.

Treatment of acute radiation sickness with concentrated thrombocytes.

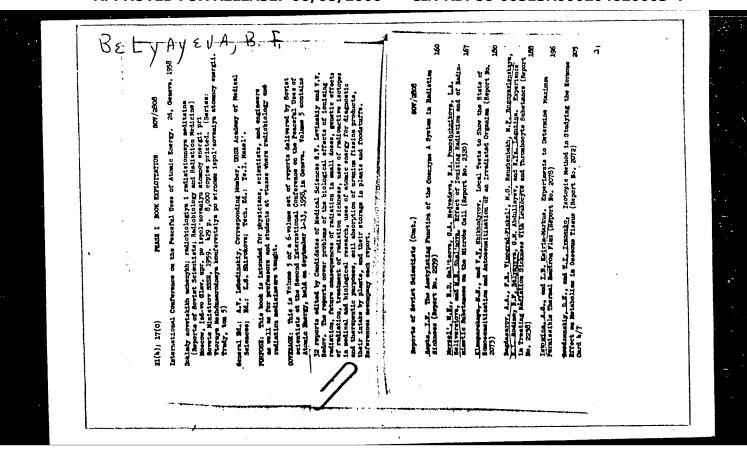
Probl.gemat. i perel.krovi 4 no.8:3-7 Ag 159. (MIRA 13:1)

1. Iz TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMN SSSR prof. A.A. Bagdasarov) Ministerstva zdravockhraneniya SSSR. 2. Deystvitel'nyy chlen AMN SSSR (for Bagdasarov).

(BLOOD TRANSFUSION)
(RADIATION INJURY ther.)

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SUKYASYAN, G.V.; DZHAVADYAN, N.S.; NOVIKOVA, H.N.; BELYAYEVA, B.F.: PROBATOVA, N.A.; SHITIKOVA, N.G.

Study of the effect of transfusion of polyvinylpyrrolidone on the course of acute radiation sickness. Probl.gemat. i perel. krovi 4 no.3:48-55 Mr '59. (MIRA 12:6)

1. Is TSentral'nogo ordena Lenina instituta gematologii i perelivaniya krovi (dir. - deystvitel'nyy chlen AMS SSSR prof.A.A.Bagdasarov) Ministerstva zdravookhraneniya SSSR. (ROKNITGEN RAYS, inj. eff.

radiation sickness, eff. of polyvinylpyrrolidone transfusion in animals (Rus))

(POLYVINYLPYRROLIDONE, eff.

intravenous admin., on acute radiation sickness in animals (Rus))

BELYAYEVA, B.K., Cand lech Sci -- (diss) "Study of construction solutions for Encine of the state of construction and Architecture

UKSSR. Sci Res Inst of Construction Materials and Manufactures)

150 copies (KL, h2-58, 115)

- 30 -

- 1. B. N. BELYAYEVA
- 2. USSR (600)
- 4. Botany Study and Teaching
- 7. Development of the concept of plants as complete organisms. Est. v. shkole no. 1 1953.

9. Monthly List of Russian Accessions, Library of Congress, April

OVCHINNIKOV, N.M.; AKOPYAN, A.T.; SMELOV, N.S.; RAKHMALEVICH, E.M.;
BELYAYEVA, E.F.; ZERTSALOVA, G.N.; ZALKIN, N.M.; REZNIKOVA, L.S.;
AVAKYAN, A.A.

Data on the etiology of pemphigus. Borgyogy. vener. szemle 36 no.5: 193-200 S '60.

1. Az Orosz Szocialista Szovetsegi Koztarsasag Egeszsegugyi Miniszteriuma Kozponti Bor-Nemikortani Intezetenek (Igazgato: Turanov N.M., az orvostudomanyok kandidatusa es a Poliomyelitiskutato Intezet (Igazgato: prof. Csumakov M.I., a Szovjet Tudomanyos Akademia levelezo tagja) kozlemenye. (PEMPHIGUS etiol)

DOGADKIN, B.A.; BELYAYEVA, E.N.

Reaction of phenyl-Pnaphtylamine with benzoyl peroxide and the effect of O-benzoyl-N-phenyl-N-P-naphthylhydroxylamine on the oxidation of rubber. Vysokom.soed. 1 no.1:123-125 Ja 159.

(MIRA 12:9)

1. Nauchno-issledovatel skiy institut shinnoy promyshlennosti.
(Antioxidants) (Naphthylamine) (Benzoyl peroxide)

DOGADKIN, B.A.; FEL'DSHTEYN, M.S.; BELYAYEVA, E.N.

Effect of double systems of vulcanization accelerators. Vysokom (MIRA 12:10)

soed. 1 no.2:254-264 F '59.

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti, Moskva.

(Vulcanization)

DOGADKIN, B.A.; BELYAYEVA, E.N.

Role of free radicals in the low temperature vulcanization (formation of sturcture) of rubber. Vysokom.soed. 1 no.2: (MIRA 12:10) 315-323 F 159.

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.
(Rubber) (Radicals (Chemistry)) (Vulcanization)

BELYAYEVA, E. N. Cand Chem Soi -- (diss) "Role of free radicals in the process of low-temperature formation of structure (vulcanization) in rubber."

Mos, 1959. 10 pp (Min of Higher Education USSR. State Committee of the Council of Ministers on Chemistry. Mos Inst of Fine Chem Technology im Lomonosov. Sci Res Inst of Tire Industry). (KL, 52-59, 116)

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S/190/60/002/02/07/011 B004/B061

15.9120

AUTHORS:

Dogadkin, B. A., Fel'dshteyn, M. S., Belyayeva, E. N.

TITLE:

The Action of Binary Systems of Vulcanization Accelerators. II. The Chemical Interaction of Accelerators and the Mechanism of the Activating Action of Binary Systems

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 2,

pp. 247-258

TEXT: The authors previously (Ref. 1) examined the action of binary accelerator systems on the vulcanization of butadiene - styrene rubber mixtures. The action of such systems on the vulcanization of natural rubber is studied here. The following systems were used: di-2-benzothiazyldisulfide + diphenylguanidine; 2-mercaptobenzothiazole + di-phenylguanidine; N-cyclohexyl-2-benzothiazole sulfenamide + diphenylguanidine; N,N'-diethyl-2-benzothiazole sulfenamide + tetramethyl-thiuram monosulfide. The action of these systems on the vulcanization, the kinetics of sulfur depositing (studied in collaboration with

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The Action of Binary Systems of Vulcanization Accelerators. II. The Chemical Interaction of Accelerators and the Mechanism of the Activating Action of Binary Systems S/190/60/002/02/07/011 B004/B061

M. Krasukhina), the temperature dependence of the reactions, and the yield of 2-mercaptobenzothiazole are given in Figs. 1 - 13 and Tables 1 and 2. Fig. 14 shows microphotographs of the conversion of the sulfur which was separated by the reaction of di-2-benzothiazyldisulfide with hydrogen sulfide (taken by M. B. Rozova). The following conclusions are drawn from these data: The accelerator combinations examined can be divided, on the basis of their action during the main period of vulcanization, into a) systems with mutual activation of the accelerators; b) systems with activation of only one (the weaker) accelerator; and c) systems with additive action. The kinetics of the systems a) and b) are characterized by a delay in the initial stages of vulcanization compared with the kinetics of the separately applied components. 2-mercaptobenzothiazole is formed on the interaction of accelerators one of which contains benzothiazole groups, and the other is the hydrogen donor (e.g., di-2-benzothiazyldisulfide + diphenylguanidine). In rubber, this compound arises in all systems with mutual activation, when the

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